

Preliminary Data from

Collection of Evaporative Emissions Data From Off-Road Equipment

Prepared For The
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and The
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Results

Table 2, 3, 4, and 5 display summaries of the test program using a common format. The first columns display the identification class and number (for example Mower 01), year of manufacture, make and model (99 Toro SR-2105) and engine combustion cycle (4 stroke). The fuel tank capacity in gallons (0.50) follows. A description of the test sequence (Baseline) follows. “Baseline” is used to describe the as-received hot soak and diurnal test using the market basket blend of California Phase II commercial fuel. Other test types include “RL” for running loss tests, “refuel” for refueling tests, “Level %” to highlight the tests performed with different levels of fuel in the tank, and “Weather #” to describe tests performed on successive weeks without refueling. Other special notes will be described.

The fuel used for the test is described under the Fuel heading. “P2” is the market basket blend, while “9.5” is the winter grade phase II fuel. The Date column is the date the test began. The “HLS” column displays the net results in grams HC of the 3-hour Hot Loss Soak test that follows engine warm-up. The detailed electronic results may be used to determine the first hour results, or the change in rate of hot soak emissions over time. “DHB” denotes Diurnal Heat Build results. The total change in grams HC over the 24-hour period is displayed. The “RLS” column displays the total grams HC generated during the Running Loss test. The “Refuel” column displays the total HC grams measured during the refueling test.

On-road vehicle emissions for running loss tests are reported on a grams/mile basis. This is not appropriate for such equipment as lawn mowers and generators. The duration of the running loss test is reported in hours under “Dur”. This is used to compute grams/hour for the running loss result. The smaller equipment did not have sufficient fuel tank capacity to operate an entire hour. The duration of the test for these pieces of equipment is reported as a decimal fraction (0.68 hours for Mower 03). Refueling results are normally reported on a grams/gallon of fuel added basis. The “gal” column reflects the gallons added. The final column “Note” is used for comments, and computed results such as grams/gallon, grams/hour, or grams/mile.